

- 1 REMOVE EXISTING PRIMARY CHILLED WATER PUMPS AND ASSOCIATED VFD'S COMPLETE. PUMPS, MOTORS AND VFD'S SHALL BE TURNED OVER TO RIVERVIEW PSYCHIATRIC. REMOVE SECTION OF EXISTING PCHWS & PCHWR PIPING AS REQUIRED TO FACILITATE INSTALLATION OF NEW PUMPS. EXISTING HOUSEKEEPING PADS TO REMAIN.
- 2 EXISTING FREEZE PROTECTION PUMPS TO REMAIN.
- 3 EXISTING 8" PCHWS / PCHWR PIPING TO REMAIN COMPLETE w/ LOW POINT DRAINS, THERMOMETERS AND ELECTRIC HEAT TRACE CONTROLS.
- 4 EXISTING 8" AIR / DIRT SEPARATOR TO BE REMOVED / REPLACED.
- 5 REMOVE EXISTING TRIPLE DUTY VALVE.
- 6 EXISTING THERMON ELECTRIC HEAT TRACE END TERMINATION TO REMAIN. PROVIDE ALTERATIONS AND EXTENSIONS TO THE EXISTING HEAT TRACE AS REQUIRED TO FACILITATE THE PIPING MODIFICATIONS PRESCRIBED HERE-IN.

THE CHILLED WATER SYSTEM AS IT CURRENTLY EXISTS CONTAINS LITTLE TO NO GLYCOL. THE PROJECT SCOPE HERE-IN SHALL INCLUDE RESTORATION OF THE ENTIRE PRIMARY / SECONDARY CHILLED WATER SYSTEM TO 30% CONCENTRATION OF PROPYLENE GLYCOL. THE CONTRACTOR SHALL DRAIN THE ENTIRE SYSTEM, MEASURING THE TOTAL SYSTEM VOLUME AS IT IS DRAINED AND RE-FILL THE SYSTEM WITH A 30% PROPYLENE GLYCOL SOLUTION AS SPECIFIED. AS THE TOTAL SYSTEM VOLUME IS NOT CURRENTLY KNOWN, THE CONTRACTOR SHALL INCLUDE A BASE AMOUNT OF 1,500 GALLONS (100% PG) WITH AN ADDITIVE / DEDUCTIVE ALLOWANCE FOR ADDING AND SUBTRACTING FROM THE BASE QUANTITY AS REQUIRED - SEE SPECIFICATIONS.

- | REVISIONS | NUMBER | DATE | BY | DESCRIPTION |
|-----------|--------|------|----|-------------|
|           |        |      |    |             |
|           |        |      |    |             |
|           |        |      |    |             |
|           |        |      |    |             |
- 1 REVISE EXISTING 8" PCHWS & PCHWR PIPE DROPS TO PUMPS AS REQUIRED TO FACILITATE INSTALLATION OF THE REPLACEMENT PUMPS.
  - 2 FURNISH AND INSTALL A NEW 8" AIR / DIRT SEPARATOR.
  - 3 PROVIDE CHECK VALVE IN PIPE RISER.
  - 4 NEW TEMPERATURE SENSOR AT EXISTING DECOUPLER PIPE (BYPASS).
  - 5 NEW TEMPERATURE SENSOR. DE-COMMISSION THE EXISTING PRIMARY AND SECONDARY CHILLED WATER SUPPLY / RETURN TEMPERATURE SENSORS.

A1	MECHANICAL DEMOLITION PART PLAN ~ MECHANICAL ROOM	A4	DEMOLITION KEYED NOTES	A6	MECHANICAL PART PLAN ~ MECHANICAL ROOM	A9	KEYED NOTES
1/4" = 1'-0"		NONE		1/4" = 1'-0"		NONE	

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MECHANICAL PIPING PART PLANS  
~ MECHANICAL ROOM

RIVERVIEW PSYCHIATRIC CENTER  
~ CHILLER REPLACEMENT

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M-100

N:\Projects\2021\121076 - Riverview Psychiatric Center Chiller Replacement\4 DRAWINGS\21076A.dwg Oct 20, 2021 - 10:18am

- 1 REMOVE EXISTING 400 TON AIR-COOLED CHILLER COMPLETE. EXISTING CONCRETE EQUIPMENT PAD TO REMAIN.
- 2 EXISTING 8" PCHWS / PCHWR PIPING TO REMAIN.
- 3 SECTION OF EXISTING 8" PCHWS & PCHWR PIPING TO BE REMOVED AS REQUIRED TO FACILITATE INSTALLATION OF NEW CHILLERS. EXISTING HEAT TRACE TO BE REMOVED / REVISED AT AREAS OF DEMOLISHED PIPING.
- 4 SECTION OF EXISTING 8" PCHWS & PCHWR PIPING TO BE REMOVED AS REQUIRED TO FACILITATE INSTALLATION OF NEW 8" CAPPED BRANCHES AND ISOLATION VALVES.
- 5 EXISTING CATCH BASIN TO BE RELOCATED AS REQUIRED TO ACCOMMODATE THE EXPANDED CHILLER PAD.
- 6 EXISTING CHAINLINK FENCE DOORS TO BE REMOVED / RELOCATED.
- 7 EXISTING UTILITY SHED TO REMAIN.
- 8 EXISTING PIPE SUPPORT TO REMAIN.
- 9 EXISTING PIPE SUPPORT TO BE REMOVED - RELOCATED.
- 10 EXISTING PIPE SUPPORT TO BE REMOVED COMPLETE.

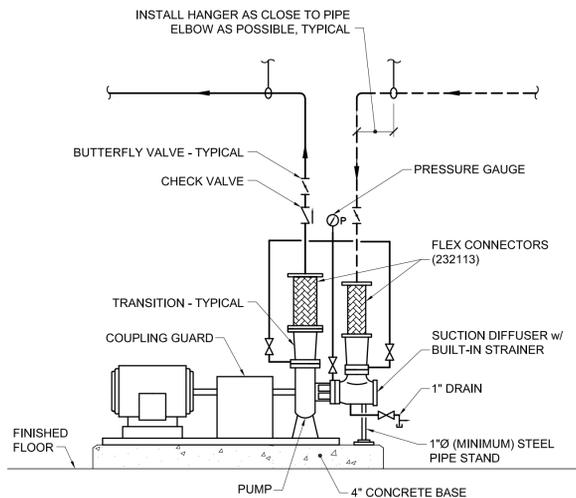
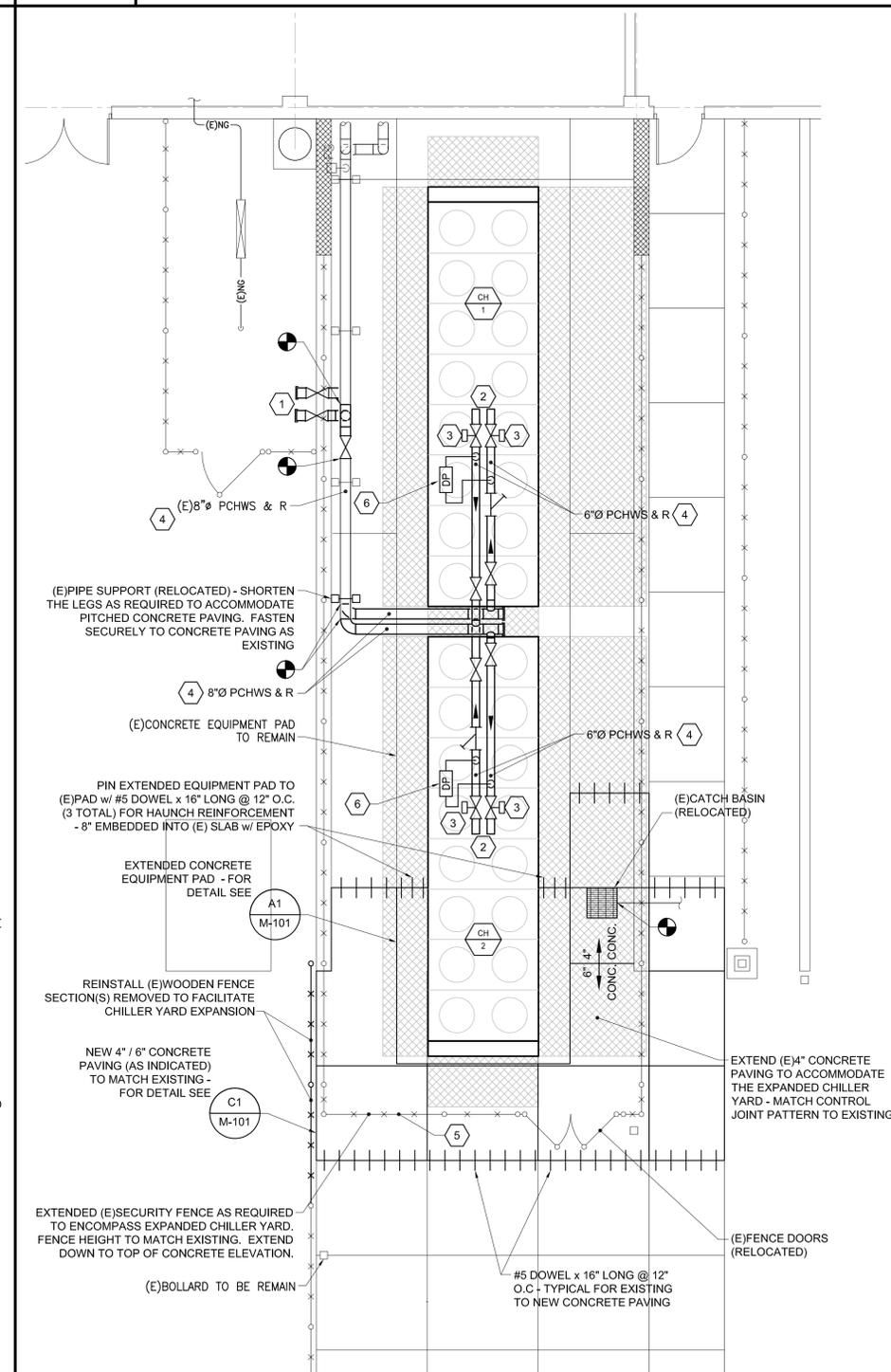
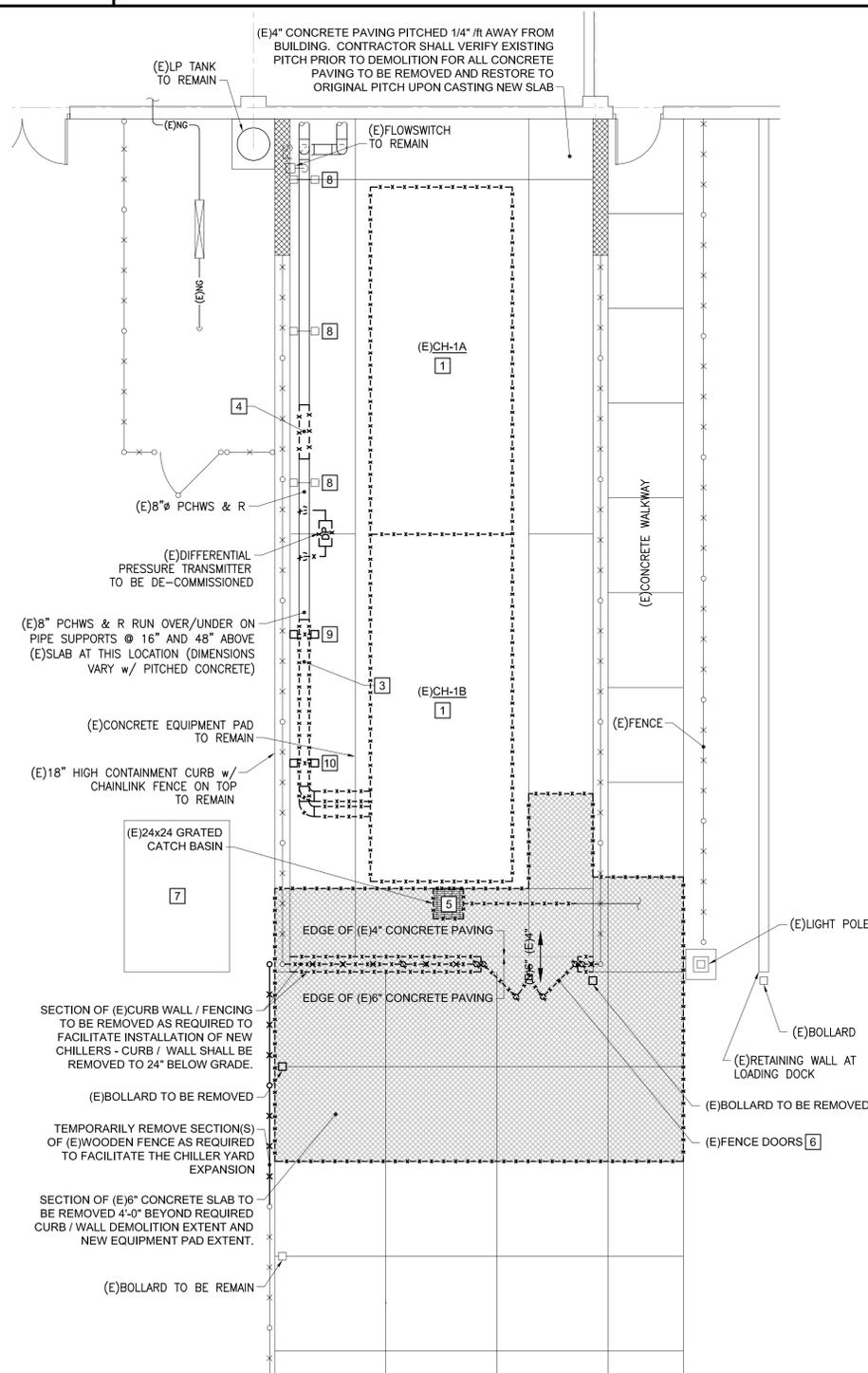
- 1 PROVIDE VALVED AND CAPPED 8" PCHWS & PCHWR TAPS FOR TEMPORARY CHILLER TIE-IN PROVISIONS.
- 2 6" PCHWS & PCHWR TO CHILLER INLET / OUTLET WATER CONNECTIONS.
- 3 MOTORIZED ISOLATION VALVE.
- 4 REVISED EXISTING ELECTRIC HEAT TRACE AS REQUIRED TO FACILITATE THE ADDITION OF HEAT TRACE AT ALL NEW EXTERIOR CHILLED WATER SUPPLY AND RETURN PIPING.
- 5 THE NEW (EXTENDED) SECURITY FENCE SHALL BE FURNISHED AND INSTALLED BY B&B FENCING - CONTACT: 207-754-0777. MANUFACTURED COMPONENTS SUPPLIED BY STEPHENS PIPE AND STEEL - TO MATCH EXISTING. FENCING SHALL INCORPORATE BLACK VINYL COATED SCHEDULE 40 PIPE, BLACK VINYL COATED 8ga. WIRE AND BLACK PRIVACY SLATS - AS CURRENTLY EXISTS.
- 6 NEW DIFFERENTIAL PRESSURE SENSOR ACROSS PRIMARY CHILLED WATER SUPPLY / RETURN.

F4 DEMOLITION KEYED NOTES

NONE

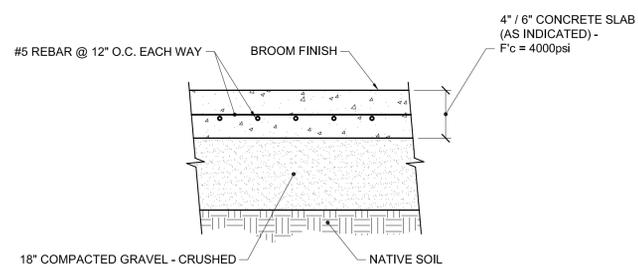
F7 KEYED NOTES

NONE



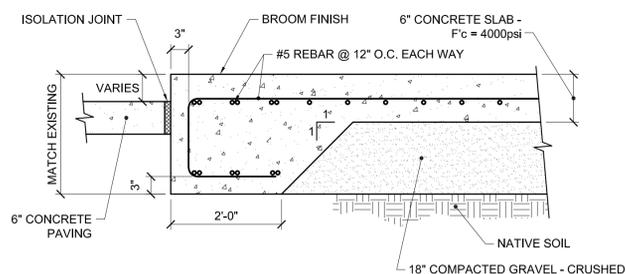
E1 DETAIL ~ BASE MOUNTED PUMP

NOT TO SCALE



C1 DETAIL ~ CONCRETE SLAB AT SIDEWALK

NOT TO SCALE



A1 DETAIL ~ CONCRETE SLAB AT CHILLER

NOT TO SCALE

A4 MECHANICAL DEMOLITION PART PLAN ~ BUILDING EXTERIOR

3/16" = 1'-0"

A7 MECHANICAL PART PLAN ~ BUILDING EXTERIOR

3/16" = 1'-0"

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STATE OF MAINE  
ANTHONY S. DAVIS  
No. 8834  
LICENSED PROFESSIONAL ENGINEER

REVISIONS	NUMBER	DATE	BY	DESCRIPTION

Date: -  
Drawn By: REW  
Checked By: ASD  
Project Mgr: ASD  
Project No: 21076  
C&G File: 21076A.DWG  
Graphic Scale: 1" = 1'-0"  
Scale: 0

MECHANICAL PIPING PART PLANS  
~ BUILDING EXTERIOR

RIVERVIEW PSYCHIATRIC CENTER  
~ CHILLER REPLACEMENT  
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**M-101**

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N:\Projects\2021\21076 - Riverview Psychiatric Center Chiller Replacement.dwg Oct 19, 2021 - 10:28am

AIR COOLED CHILLER SCHEDULE																												
TAG	MFR.	MODEL	REFRIG.	REFRIG. CHARGE	DIMENSIONS			UNIT WEIGHT, LBS	NOMINAL TONS	REFRIGERATION CAPACITY (TONS)	AMBIENT TEMP	PERFORMANCE				A-WEIGHTED SOUND PRESSURE		EVAPORATOR		ELECTRICAL - SINGLE-PT. POWER CONNECTION					NOTES			
					LENGTH	WIDTH	HEIGHT					CHW ENT/LEAVING TEMP	KW/TON	IPLV	EER	GPM	WATER P.D. (FT HD)	EVAPORATOR CONFIGURATION	FLUID	COMP QTY	VOLTS-PH	UNIT POWER, KW	UNIT RLA	UNIT MCA		MOP		
CH-1	TRANE	ACSA23002EUA	R-410A	208LBS.	334"	88"	98"	10,701	230	207.9	95F	54F - 44F	1.13	16.5	9.6	70 dBA	94 dBA	517	19.9	2-PASS, 1.25" INSULATION	30% PG	6	460-3	260.93	69XB	468A	500A	1, 2
CH-2	TRANE	ACSA23002EUA	R-410A	208LBS.	334"	88"	98"	10,701	230	207.9	95F	54F - 44F	1.13	16.5	9.6	70 dBA	94 dBA	517	19.9	2-PASS, 1.25" INSULATION	30% PG	6	460-3	260.93	69XB	468A	500A	1, 2

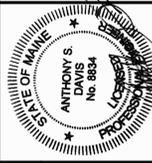
NOTES:  
 1. PROVIDE UNIT MOUNTED STARTER AND DISCONNECT SWITCH. SINGLE POINT POWER CONNECTION.  
 2. PROVIDE PREMIUM SOUND ENHANCEMENT PACKAGE AND AUTOMATIC SOUND REDUCTION REQUEST CONTROLS.

HYDRONIC PUMP SCHEDULE																			
TAG	SYSTEM	MFR.	MODEL	SUCTION X DISCH	TYPE	PUMPED FLUID	PERFORMANCE				ELECTRICAL			ELECTRICAL COORDINATION				NOTES	
							GPM	HEAD	RPM	NPSH	BHP	NOL HP	MOTOR HP	VOLTS/PH (60 Hz.)	STARTER TYPE	STARTER FURN. BY	BOTH PUMPS RUN?		DISC. SWITCH FURN BY
P-5R	CHW	TACO	SF16011	8 X 6	INTEGRAL VARIABLE SPEED-REMOTE MT	WATER	1034	90	1,760	15	39.1	50	50	460/3	INTEGRAL	---	NO LEAD-LAG	DIV 26	1
P-6R	CHW	TACO	SF16011	8 X 6	INTEGRAL VARIABLE SPEED-REMOTE MT	WATER	1034	90	1,760	15	39.1	50	50	460/3	INTEGRAL	---	NO LEAD-LAG	DIV 26	1

NOTES: 1. Pump shall include remote mounted VFD, controlled via signal from BAS.

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NUMBER	DATE	BY	DESCRIPTION

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 Drawn By: REW  
 Checked By: ASD  
 Project Mgr: ASD  
 Project No: 21076  
 Cad File: 21076A.DWG  
 Graphic Scale: 0 1"

**MECHANICAL SCHEDULES**  
 RIVERVIEW PSYCHIATRIC CENTER  
 ~ CHILLER REPLACEMENT  
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**M-600**

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ELECTRICAL SCHEDULE OF MECHANICAL EQUIPMENT																		
TAG	DESCRIPTION	LOC.	VOLTS	PH	LOAD	FLA	MCA	MOPD	DISCONNECT SWITCH					STARTER (NEMA)		CBD	LOAD SOURCE	NOTES
									FRAME	POLES	FUSE	NEMA ENCL	FBD	SIZE/ VFD	FBD			
P-5R	HYDRONIC PUMP - CHW	MECH	480	3	50 HP	65		100	100	3		1	26	VFD	23	23	(E) EEH-01A	1
P-6R	HYDRONIC PUMP - CHW	MECH	480	3	50 HP	65		100	100	3		1	26	VFD	23	23	(E) EEH-01A	1
CH-1	AIR COOLED CHILLER	OUTSIDE	480	3	230 TONS		468	500	600	3	NF	3R	26	VFD	23	23	(E) ATS-CH1A	11,12,8
CH-2	AIR COOLED CHILLER	OUTSIDE	480	3	230 TONS		468	500	600	3	NF	3R	23	VFD	23	23	(E) ATS-CH1B	11,12,8

- BRANCH CIRCUIT WIRING NOT SHOWN. WIRE AND CONNECT ELECTRICAL ITEMS TO CIRCUITS INDICATED.
- DISCONNECT, REMOVE, RELOCATE, AND RECONNECT ELECTRICAL CONDUIT, WIRING, DEVICES, BOXES, FIXTURES, EQUIPMENT, ETC. AS INDICATED AND AS REQUIRED TO FACILITATE THE WORK OF DIVISION 26 AND OTHER DIVISIONS. THESE DRAWINGS ARE NOT INTENDED TO INDICATE ALL ITEMS TO BE REMOVED.
- DO NOT SCALE THE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR EXACT DIMENSIONS.
- THE LOCATION OF EQUIPMENT, OUTLETS, ETC. AS GIVEN ON THE DRAWINGS IS APPROXIMATE. IT SHALL BE UNDERSTOOD THAT THESE LOCATIONS ARE SUBJECT TO MODIFICATION AS MAY BE FOUND NECESSARY OR DESIRABLE AT THE TIME OF INSTALLATION IN ORDER TO MEET PROJECT REQUIREMENTS. SUCH CHANGES SHALL BE MADE WITHOUT EXTRA CHARGE.
- COORDINATE ALL WORK WITH OTHER DIVISIONS AND THE OWNER.
- VERIFY EXACT POWER REQUIREMENTS OF EQUIPMENT PRIOR TO ROUGH IN.
- POWER WIRING FOR EQUIPMENT & CONTROL SHALL BE PERFORMED BY DIVISION 26. ALL CONTROL WIRING OPERATING AT LESS THAN 120 VOLTS FOR MECHANICAL EQUIPMENT SHALL BE BY DIVISION 23.
- NO WIRING THAT BECOMES UNUSED AS PART OF THIS PROJECT SHALL BE ABANDONED IN PLACE.

**F9 GENERAL NOTES**

- DISCONNECT AND REMOVE EXISTING POWER FEEDER FROM (E)CH-1A AND (E)CH-1B BACK TO RESPECTIVE ATS UNIT.
- REPLACE (2) EXISTING (600A) RATED CIRCUIT BREAKER PLUG (SERVING CH-1A AND CH-1B) WITH (500AMP) RATED PLUG IN THE NORMAL SWITCHBOARD MD (DIST. SECTION) AND IN THE EMERGENCY SWITCHBOARD MDE (DIST. SECTION).
- DISCONNECT AND REMOVE EXISTING POWER FEEDER FROM (E)P5-R AND (E)P6-R BACK TO RESPECTIVE PANEL SOURCE (PANEL EEH-01A)
- REPLACE (2) EXISTING 60A-3P CIRCUIT BREAKERS (MOLDED CASE TYPE) SERVING EXISTING PUMPS P5-R AND P6-R WITH (2) NEW 100A-3P CIRCUIT BREAKERS

**D9 DEMOLITION KEYED NOTES**

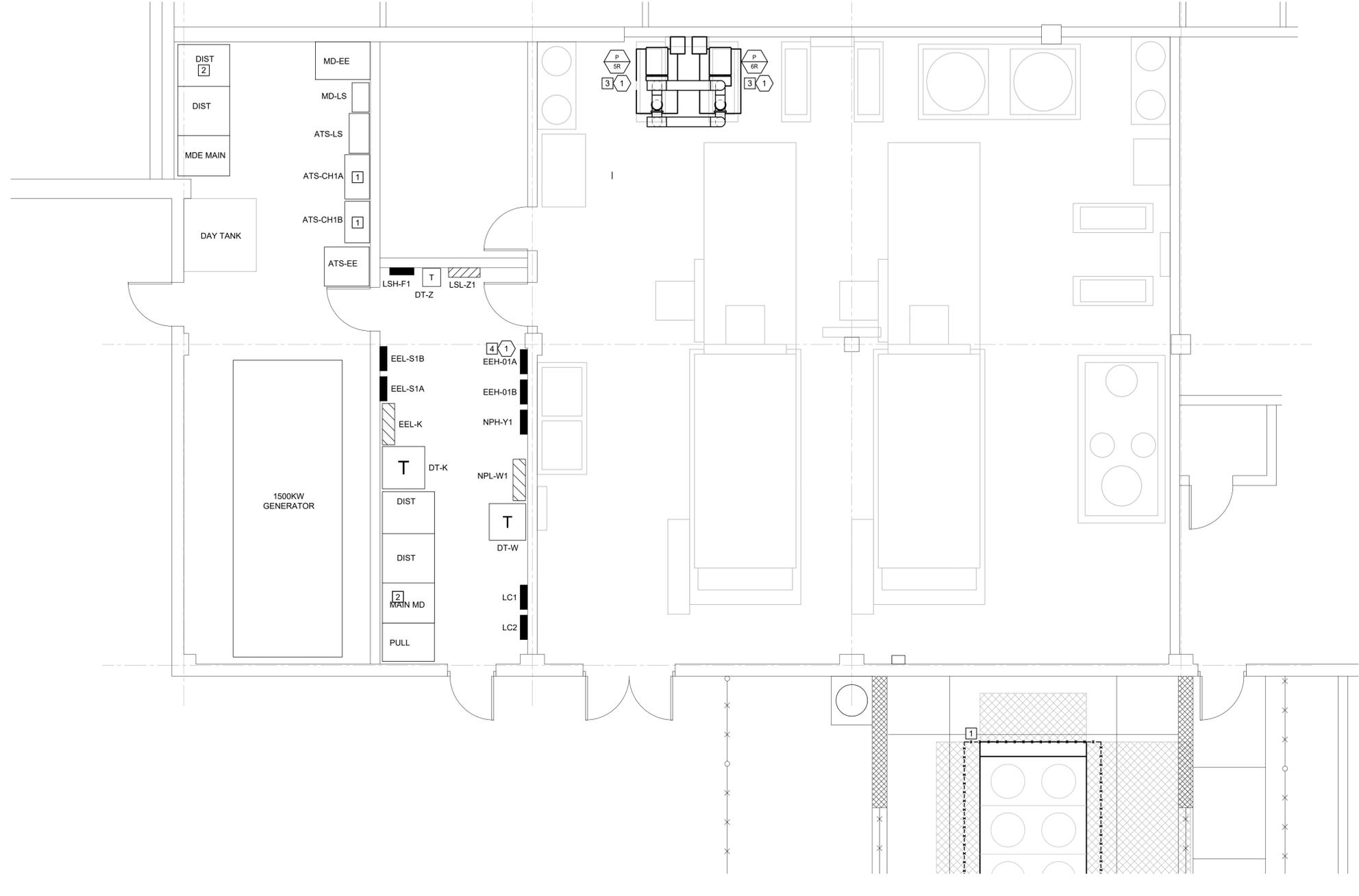
- PROVIDE NEW 100A FEEDER FROM NEW 100A-3P CIRCUIT BREAKER IN EXISTING PANEL EEH-01A TO POWER TERMINATION POINT IN VFD AT PUMP. PROVIDE FLEXIBLE FEEDER BETWEEN VFD AND PUMP MOTOR TERMINAL. FEEDER SIZE SHALL BE #1 AND 1 #8 GRD IN A 1-1/2" CONDUIT.

**F7 KEYED NOTES**

- PANELBOARD - SURFACE MOUNTED
- PANELBOARD - FLUSH MOUNTED
- FUSED DISCONNECT SWITCH
- NON-FUSED DISCONNECT SWITCH
- MOTOR STARTER - NUMBER INDICATES NEMA SIZE
- COMBINATION MOTOR STARTER/FUSED DISCONNECT
- MOTOR OR FAN
- METER AND CABINET
- JUNCTION BOX - CEILING MOUNTED
- JUNCTION BOX - WALL MOUNTED
- TRANSFORMER - NUMBER INDICATES DESIGNATION SEE TRANSFORMER SCHEDULE
- VARIABLE FREQUENCY DRIVE
- TRANSIENT VOLTAGE SURGE SUPPRESSOR
- EMERGENCY SHUTOFF SWITCH - WALL MOUNTED 48" TO CENTERLINE - PROVIDE TAMPER-PROOF COVER
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- WIRING UNDERGROUND OR UNDERSLAB
- HOMERUN - (2)#12+(1)#12G UNO (EXCEPT LIGHTING CIRCUITS: (1)#12+(1)#10N+(1)#12G UNO)
- SINGLE-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT
- 3-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT
- FLEXIBLE CONNECTION
- GROUNDING SYSTEM
- RECEPTACLE PROVIDED BY MANUFACTURER

**A9 ELECTRICAL LEGEND**

NO SCALE

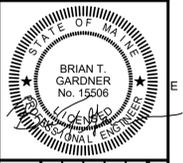


**A1 BOILER ROOM ELECTRICAL PART PLAN**

1/4"=1'-0"

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Date:	Drawn By:	Checked By:	Project Mgr.:	Cad File:	Graphic Scale:
	PMC	BTG	ASD	210RE.DWG	0 1"

**BOILER ROOM ELECTRICAL PART PLAN**  
RIVERVIEW PSYCHIATRIC CENTER  
~ CHILLER REPLACEMENT  
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**E-100**

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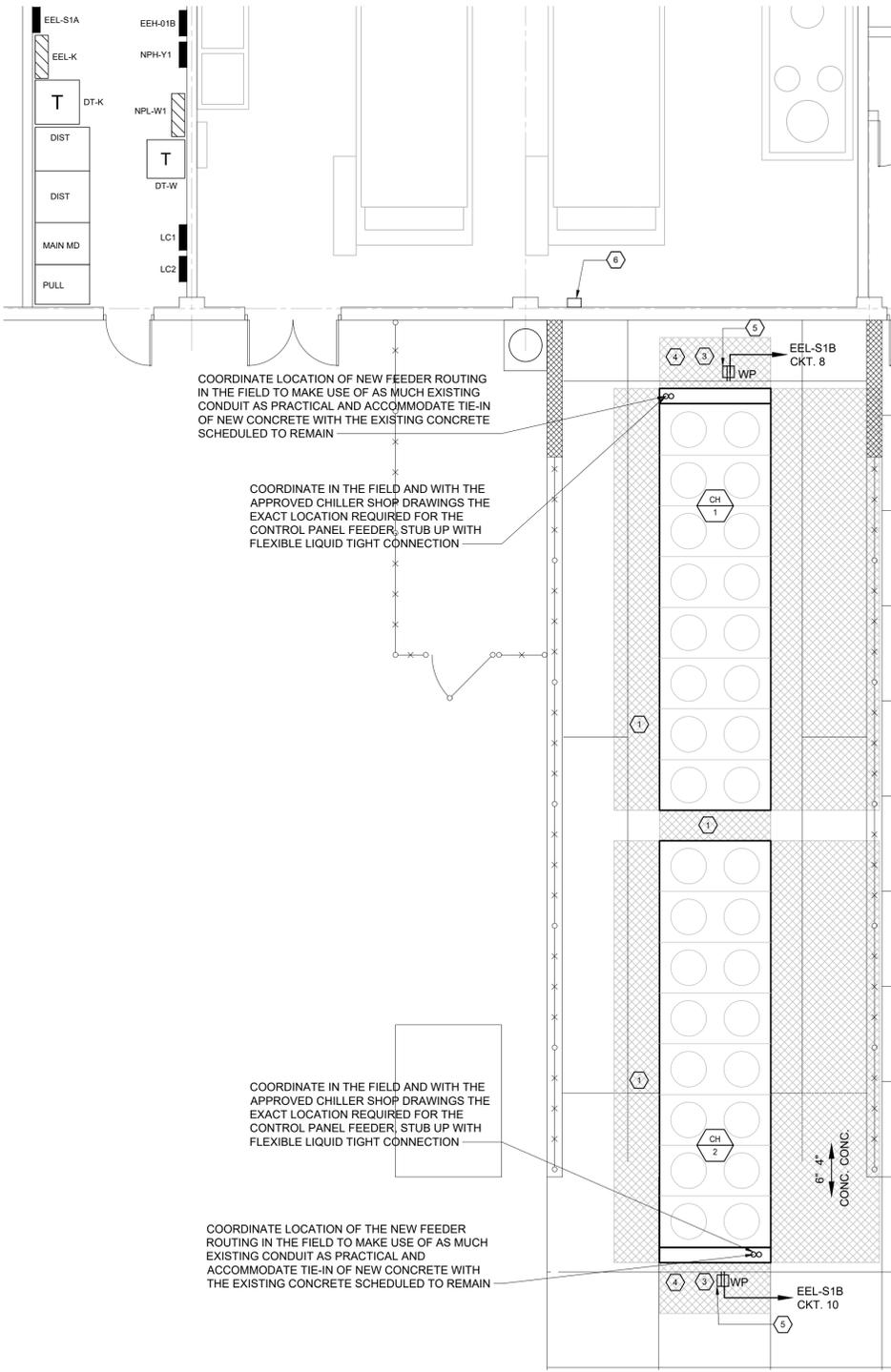
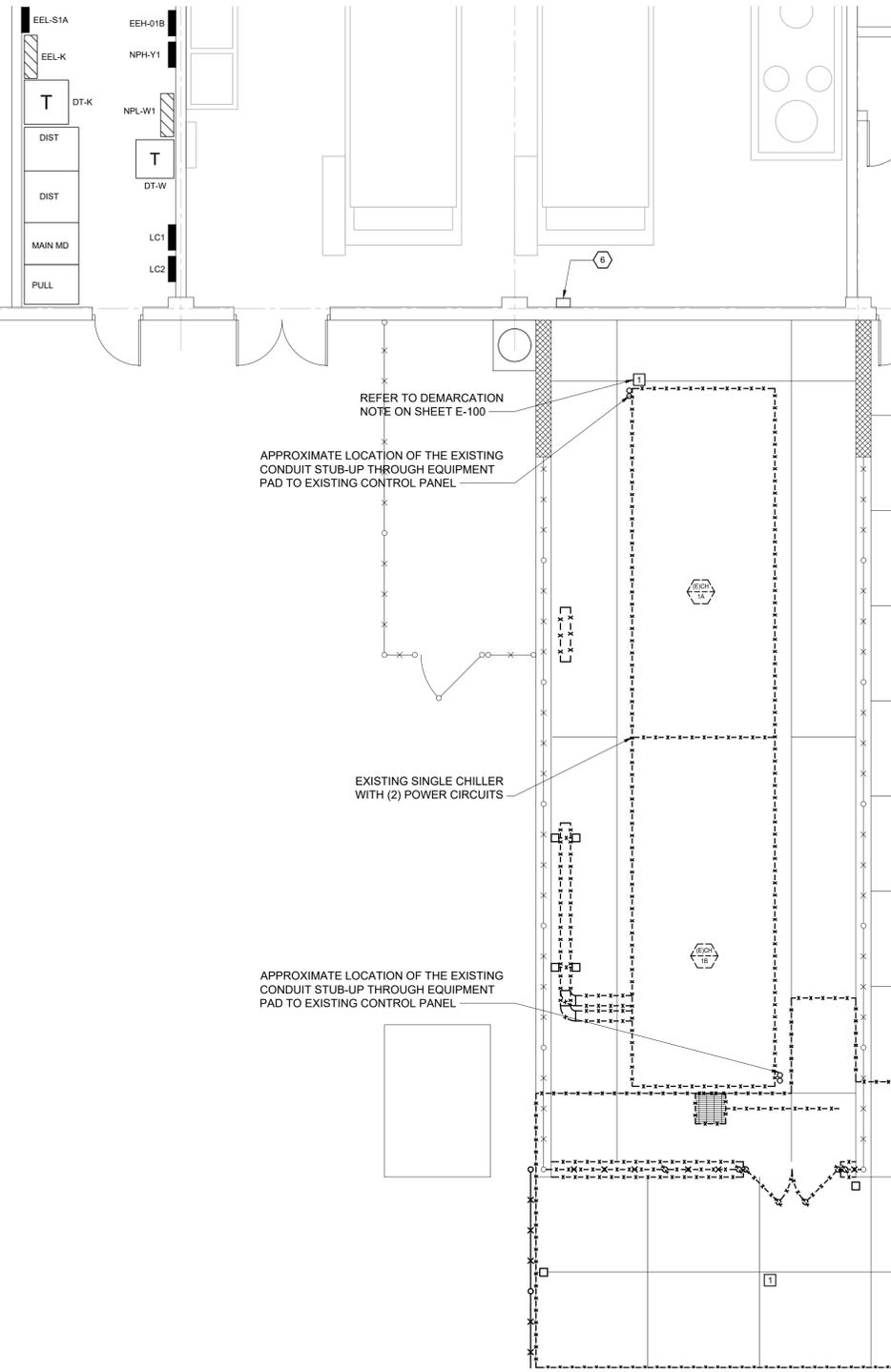
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- 1 DISCONNECT AND REMOVE EXISTING POWER FEEDER FROM (E)CH-1A AND (E)CH-1B BACK TO RESPECTIVE ATS UNIT.
- 2 REPLACE (2) EXISTING (600A) RATED CIRCUIT BREAKER PLUG (SERVING CH-1A AND CH-1B) WITH (500AMP) RATED PLUG IN THE NORMAL SWITCHBOARD MD (DIST. SECTION) AND IN THE EMERGENCY SWITCHBOARD MDE (DIST. SECTION).
- 3 DISCONNECT AND REMOVE EXISTING POWER FEEDER FROM (E)P5-R AND (E)P6-R BACK TO RESPECTIVE PANEL SOURCE (PANEL EEH-01A)
- 4 REPLACE (2) EXISTING 60A-3P CIRCUIT BREAKERS (MOLDED CASE TYPE) SERVING EXISTING PUMPS P5-R AND P6-R WITH (2) NEW 100A-3P CIRCUIT BREAKERS

- 1 REUSE EXISTING DEDICATED HEAT TRACE POWER CIRCUIT TO EXISTING END TERMINATION BOX. HEAT TRACE WIRING SHALL BE EXTENDED AND INSTALLED TO PIPING UNDER DIVISION 23, TO THE NEW EXTERIOR CHILLED WATER PIPING (MAXIMUM 100 LINEAR FEET OF HEAT TRACE TAPE PER CIRCUIT). REUSE THE EXISTING 20A, 120 VOLT, GFPE CIRCUIT BREAKER IN EXISTING PANEL EEL-S1A OR EEL-S1B TO SERVE EACH MODIFIED HEAT TRACE POWER CIRCUIT. PROVIDE NEW POWER CIRCUITS FOR HEAT TRACE, AS REQUIRED. IF NEW PIPING LENGTHS EXCEED THE EXISTING PIPE LENGTHS, REFER TO THE MECHANICAL PLAN FOR ADDITIONAL INFORMATION ON THE REMOVED AND THE NEW PIPE LENGTHS AND ROUTES THAT REQUIRE HEAT TRACE PROTECTION. EXISTING POWER SOURCE PANEL FOR HEAT TRACE END TERMINATION BOX IS EEL-S1A. IF NEW BREAKERS FOR NEW CIRCUITS ARE NEEDED, THEN INSTALL THEM INTO PANEL EEL-S1B.
- 2 PROVIDE NEW FEEDER FROM POWER TERMINATION POINT ON NEW THE CHILLER CONTROL PANEL TO THE EXISTING ATS-CH1A. UTILIZE THE EXISTING (2) 3" CONDUITS WHERE PRACTICAL AND EXTEND THEM TO THE NEW CHILLER CONTROL PANEL LOCATION. RUN A NEW FEEDER BETWEEN THE EXISTING ATS-CH1A AND THE NEW CHILLER CONTROL PANEL. FEEDER SIZE SHALL BE (2) SETS OF 4# 250 KCMIL AND 1#2 GND.
- 3 PROVIDE NEW FEEDER FROM POWER TERMINATION POINT ON THE NEW CHILLER CONTROL PANEL TO THE EXISTING ATS-CH1B. UTILIZE THE EXISTING (2) 3" CONDUITS WHERE PRACTICAL AND EXTEND THEM TO THE NEW CHILLER CONTROL PANEL LOCATION. RUN A NEW FEEDER BETWEEN THE EXISTING ATS-CH1B AND THE NEW CHILLER CONTROL PANEL. FEEDER SIZE SHALL BE (2) SETS OF 4# 250 KCMIL AND 1#2 GND.
- 4 REUSE EXISTING CHILLER CONTROL PANEL CIRCUIT THAT SERVED THE REMOVED CHILLER CONTROL PANEL AND EXTEND THE RESPECTIVE BRANCH CIRCUIT WIRING TO THE NEW CHILLER CONTROL PANEL. EXISTING POWER SOURCE PANEL IS EEL-S1A.
- 5 PROVIDE BRANCH CIRCUIT TO UNIT MOUNTED CONVENIENCE RECEPTACLE PROVIDED BY MANUFACTURER. UTILIZE EXISTING SPARE BREAKER(S) IN PANEL EEL-S1B AS IDENTIFIED ON PLAN.
- 6 APPROXIMATE LOCATION FOR EXISTING ELECTRICAL HEAT TRACING END TERMINATION BOX.

D9 DEMOLITION KEYED NOTES

F4 KEYED NOTES



A1 MECHANICAL DEMOLITION PART PLAN ~ BUILDING EXTERIOR

A4 MECHANICAL PART PLAN ~ BUILDING EXTERIOR - NEW

3/16" = 1'-0"

3/16" = 1'-0"

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NUMBER	DATE	BY	DESCRIPTION

Date:	
Drawn By:	PMC
Checked By:	BTG
Project Mgr.:	ASD
Project No.:	21076
Cap File:	21076E.DWG
Graphic Scale:	0 1"

ELECTRICAL PART PLAN  
~ BUILDING EXTERIOR  
RIVERVIEW PSYCHIATRIC CENTER  
~ CHILLER REPLACEMENT  
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**E-101**

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